

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/541,257
Source: IFWP
Date Processed by STIC: 08/02/2006

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 08/02/2006

PATENT APPLICATION: US/10/541,257

TIME: 09:08:27

Input Set : N:\RJAVED\10541257.txt

Output Set: N:\CRF4\08022006\J541257.raw

```

4 <110> APPLICANT: KOCHENDOERFER, GERD G.
5     SHAO, HAIYAN
6     CRESSMAN, SONYA
8 <120> TITLE OF INVENTION: MULTIPLEX POLYMER LIGATION
10 <130> FILE REFERENCE: GRFN-047
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/541,257
C--> 12 <141> CURRENT FILING DATE: 2005-06-29
12 <150> PRIOR APPLICATION NUMBER: 60/437,511
13 <151> PRIOR FILING DATE: 2002-12-30
15 <150> PRIOR APPLICATION NUMBER: 60/515,609
16 <151> PRIOR FILING DATE: 2003-10-29
18 <160> NUMBER OF SEQ ID NOS: 2
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 174
24 <212> TYPE: PRT
25 <213> ORGANISM: Artificial Sequence
27 <220> FEATURE:
28 <223> OTHER INFORMATION: synthetic granulocyte stimulating protein
30 <220> FEATURE:
31 <221> NAME/KEY: VARIANT
32 <222> LOCATION: (58)...(58)
33 <223> OTHER INFORMATION: Xaa = a non-native lysine chemically modified at the epsilon-
amino group
34     with an
35     oxime linker group coupled to a designated water-soluble polymer through
36     an oxime bond
W--> 37     (or intermediates which contain AoA)
39 <220> FEATURE:
40 <221> NAME/KEY: VARIANT
41 <222> LOCATION: (121)...(121)
42 <223> OTHER INFORMATION: Xaa = Nle (norleucine)
44 <220> FEATURE:
45 <221> NAME/KEY: VARIANT
46 <222> LOCATION: (126)...(126)
47 <223> OTHER INFORMATION: Xaa = Nle (norleucine)
49 <220> FEATURE:
50 <221> NAME/KEY: VARIANT
51 <222> LOCATION: (131)...(131)
52 <223> OTHER INFORMATION: Xaa = psi (non-native amino acid residue
53     consisting of a cysteine that is
54     carboxamidemethylated at the sulfhydryl group)
56 <220> FEATURE:
57 <221> NAME/KEY: VARIANT

```

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58 <222> LOCATION: (133)...(133)

59 <223> OTHER INFORMATION: Xaa = a non-native lysine chemically modified at the epsilon-amino group

60 with an

61 oxime linker group coupled to a designated water-soluble polymer through

62 an oxime bond

W--> 63 (or intermediates which contain AoA)

65 <400> SEQUENCE: 1

66 Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys

67 1 5 10 15

68 Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln

69 20 25 30

70 Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val

71 35 40 45

W--> 72 Leu Leu Gly His Ser Leu Gly Ile Pro Xaa Ala Pro Leu Ser Ser Cys

73 50 55 60

74 Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser

75 65 70 75 80

76 Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser

77 85 90 95

78 Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp

79 100 105 110

80 Phe Ala Thr Thr Ile Trp Gln Gln Xaa Glu Glu Leu Gly Xaa Ala Pro

81 115 120 125

82 Ala Leu Xaa Pro Xaa Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe

83 130 135 140

84 Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe

85 145 150 155 160

86 Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro

87 165 170

90 <210> SEQ ID NO: 2

91 <211> LENGTH: 174

92 <212> TYPE: PRT

93 <213> ORGANISM: Artificial Sequence

95 <220> FEATURE:

96 <223> OTHER INFORMATION: synthetic granulocyte stimulating protein

98 <220> FEATURE:

99 <221> NAME/KEY: VARIANT

100 <222> LOCATION: (17)...(17)

101 <223> OTHER INFORMATION: Xaa = Abu (Aminobutyric acid)

103 <220> FEATURE:

104 <221> NAME/KEY: VARIANT

105 <222> LOCATION: (58)...(58)

106 <223> OTHER INFORMATION: Xaa = a non-native lysine chemically modified at the epsilon-amino group

107 with an

108 oxime linker group coupled to a designated water-soluble polymer through

109 an oxime bond

W--> 110 (or intermediates which contain AoA)

112 <220> FEATURE:

113 <221> NAME/KEY: VARIANT

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```

114 <222> LOCATION: (121)...(121)
115 <223> OTHER INFORMATION: Xaa = Nle (norleucine)
117 <220> FEATURE:
118 <221> NAME/KEY: VARIANT
119 <222> LOCATION: (126)...(126)
120 <223> OTHER INFORMATION: Xaa = Nle (norleucine)
122 <220> FEATURE:
123 <221> NAME/KEY: VARIANT
124 <222> LOCATION: (131)...(131)
125 <223> OTHER INFORMATION: Xaa = psi (non-native amino acid residue
126     consisting of a cysteine that is
127     carboxamidemethylated at the sulfhydryl group)
129 <220> FEATURE:
130 <221> NAME/KEY: VARIANT
131 <222> LOCATION: (133)...(133)
132 <223> OTHER INFORMATION: Xaa = a non-native lysine chemically modified at the
epsilon-amino group
133     with an
134     oxime linker group coupled to a designated water-soluble polymer through
135     an oxime bond
W--> 136     (or intermediates which contain AoA)
138 <400> SEQUENCE: 2
139 Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys
140 1      5      10      15
W--> 141 Xaa Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln
142      20      25      30
143 Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val
144      35      40      45
145 Leu Leu Gly His Ser Leu Gly Ile Pro Xaa Ala Pro Leu Ser Ser Cys
146      50      55      60
147 Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser
148 65      70      75      80
149 Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser
150      85      90      95
151 Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp
152      100     105     110
153 Phe Ala Thr Thr Ile Trp Gln Gln Xaa Glu Glu Leu Gly Xaa Ala Pro
154      115     120     125
155 Ala Leu Xaa Pro Xaa Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe
156      130     135     140
157 Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe
158 145     150     155     160
159 Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro
160      165     170

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/541,257

DATE: 08/02/2006
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 58,121,126,131,133

Seq#:2; Xaa Pos. 17,58,121,126,131,133

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/541,257

DATE: 08/02/2006

TIME: 09:08:28

Input Set : N:\RJAVED\10541257.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:37 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:63 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:48
M:341 Repeated in SeqNo=1
L:110 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:136 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:16
M:341 Repeated in SeqNo=2